

Determining the elastic ...

S/169/62/000/006/004/093  
D228/D304

waves (Z mounting); the other was placed horizontally, to record the transverse waves (Y mounting). The profile length was 24 m, the interval between points being 2 m. The conducted investigations showed that transverse waves are recorded very clearly; their intensity at the time of horizontal blows is extremely great. For vibrations generated by explosions the intensity of transverse waves is small and does not allow them to be distinguished clearly on the seismograms. The elasticity moduli of the ground were determined (they are cited in the form of a table). The authors reckon that their method expands seismic surveying opportunities, and that it allows, in particular, the groundwater level to be determined sufficiently accurately in a number of cases. [Abstracter's note: Complete translation.] ✓

Card 2/2

ZNAMENSKIY, V.V.; RYABINKIN, L.A.; PETROV, L.V.; VARTANOV, S.P.;  
GAGEL'GANTS, A.A.; KOTLYAREVSKIY, B.V.; LOZOVSKAYA, I.F.;  
LYAKHOVITSKIY, F.M.; MAR'IN, N.I.; OSTROVSKIY, V.D.; PARIYSKAYA,  
G.N.; RIKHTER, V.I.; RUBO, V.V.; SLUTSKOVSKIY, A.I.; TARUTS,  
G.M.; TURCHANENKO, N.M.; SHMIDT, N.G.; SHNEYERSON, M.B.; GURVICH,  
I.I., red.; BORUSHKO, T.I., red.izd-va; GUROVA, O.A., tekhn. red.

[Instructions for seismic prospecting]Instruktsiia po seismoraz-  
vedke. Moskva, Gosgeoltekhizdat, 1962. 95 p. (MIRA 15:12)

1. Russia (1923- U.S.S.R.)Ministerstvo geologii i okhrany nedr.  
(Seismic prospecting)

LYAKHOVITSKIY, F.M.; PARFIYANOVICH, V.A.

Use of percussion devices in industrial seismic prospecting. Razved.  
goefiz. no.1:32-37 '64. (MIRA 18:7)

ACC NR: AT7000195

SOURCE CODE: UR/000/64/000/000/0294/0306

AUTHOR: Lyakhovitskiy, F. M.

ORG: none

TITLE: On the relationship between the elastic and strength properties of rocks

SOURCE: Moscow. Universitet. Kafedra geofizicheskikh metodov issledovaniya zemnoy kory. Geofizicheskiye issledovaniya (Geophysical research), no. 1. Moscow, Izd-vo Mosk. univ., 1964, 294-306

TOPIC TAGS: ~~rock~~<sup>fatigue</sup> strength, ~~rock~~ elasticity, soil mechanics, ~~rock mechanics~~ petrology

ABSTRACT: It is believed that a linear relationship exists between  $G$ , the shear modulus, and  $\tau$ , the resistance to uniaxial compression, viz.,  $G = c\tau$ . Statistical analysis of data obtained by B. P. Belikov yields coefficients of proportionality  $c$  for three rock groups: granitoids, quartzites with sandstone, and limestone. These coefficients are 95, 90, and 150, respectively. The relationship between  $c$  and the Poissons' ratio  $\nu$  is noted. Formulas are given relating  $\tau$  with elastic-wave velocities, taking into account the dependence of  $c$  on  $\nu$ . The possibilities of practical application of the relationships obtained are discussed. Orig. art. has: 13 formulas and 3 figures.

SUB CODE: 08/ SUBM DATE: 05Nov64/ ORIG REF: 016/ OTH REF: 002

Card 1/1

LYAKHOVITSKIY, I. D.

USSR/Engineering - Heat, Steam Turbines

Jun 52

"Reconstruction of the Flow Section of a Steam Turbine," D. A. Yermakov, V. P. Khripunov, A. I. Dolgov, Engineers, GRES Mosenergo, I. D. Lyakhovitskiy, Cand Tech Sci, G. N. Krushehev, Engr, Lab of Steam Turbines, VTI

"Iz v-s Teplotekh Inst" No 6, pp 24-27

Describes changes in design of turbine to increase its efficiency and reduce consumption of theoretical fuel to 480 g/kwh. Two-cylinder condensing Siemens-Shuckert 50,000-kw turbine was built in 1930-31. Regulation stage with 140 nozzles and 19 reaction stages were redesigned. Tests showed decrease in heat rate by 4.3%. Turbine capacity was increased to 2,000 kw at same max steam rate.

231T47

Lyakhovitskiy, I. D.

AID P - 4428

Subject : USSR/Heat Engineering

Card 1/1 Pub. 110-a - 8/13

Authors : Alekseyeva, R. N., Eng., I. D. Lyakhovitskiy, Kand.  
Tech. Sci. and Yu. V. Rzheznikov, Eng. All-Union  
Heat Engineering Institute.

Title : Testing methods for relatively short turbine bladings  
and their shaping.

Periodical : Teploenergetika, 6, 51-56, Je 1956

Abstract : Various static testing methods are compared for short  
blades. Data on blades are given. The new VTI design  
of blades is deemed quite satisfactory. Sixteen  
diagrams illustrate the shape of various blades types.  
Two 1955 Russian references.

Institution : None

Submitted : No date

ALEKSEYEV, R.N., inzh.; ALESHIN, A.I., inzh.; LYAKHOVITSKIY, I.D., kand.tekhn.  
nauk; RZHEZNIKOV, Yu.V., inzh.

Increasing the efficiency of the control stage of the VK-100-2  
turbine. Elek.sta. 29 no.6:26-30 Je '58. (MIRA 11:9)  
(Steam turbines--Blades)

SYAKHOVITSKIY I. D.

PHASE I BOOK EXPLOITATION

SOV/3871

Usovershenstvovaniye konstruktsiy i ekspluatatsii turbinnykh ustanovok; sbornik statey (Improvement in the Construction and Operation of Turbine Units; Collection of Articles) Moscow, Gosenergoizdat, 1959. 300 p. Errata slip inserted. 1,550 copies printed.

Eds. (Title page): Ya. M. Rubinshteyn, Professor, and A. V. Shcheglyayev, Corresponding Member, Academy of Sciences USSR; Ed. (Inside book): L. N. Sinel'nikova; Tech. Ed.: P. M. Asanov.

PURPOSE: The book is intended for engineers specializing in the design and operation of turbine equipment.

COVERAGE: This collection of 22 articles deals with aspects of turbine operations, particularly, variations in the heat performance of steam turbines and computation of optimum parameters for gas turbines. Turbine performance indices and a number of methods for more accurate determination of control parameters for specific cycles are presented. No personalities are mentioned. References follow several of the articles.

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Improvement in the Construction (Cont.)

SOV/3871

TABLE OF CONTENTS:

Foreword

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Shcheglyayev, A.V. Certain Problems Relative to the Design of More Efficient Steam-Turbine Plants

7

Economic performance indices and the principal parameters for 4 types of steam turbines are tabulated. Blade-work efficiency and aspect ratios are analyzed, including those ratios applicable to ultrasonic velocities in Bauman-type turbines. Results obtained from the testing of SVK-150 turbines at the Leningradskiy metallicheskiy zavod (Leningrad Metal Works) are given.

Lyakhovitskiy, I.D., R. N. Alekseyeva, and Yu.V. Rzhiznikov. Increasing the Economic Efficiency of Double-Arc Segments for Short-Blade Profiles

12

The authors analyze the possibilities of improving the performance characteristics of the VK-100-2 steam turbine with short blading in the governing stage. Mechanical design considerations of two arcs instead of one in the first stage are discussed, and test results are given. The essential comparative parameters (after design improvements) for nozzles, "governing" blades, and the first and the second arcs of 4 types of turbines are presented in a table. The overall diagram of the reconstructed governing stage for the VK-100-2 turbine is given.

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Improvement in the Construction (Cont.)

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Lagun, V.P. Reconstruction of the 34,000-kwt Siemens-Schuckert Turbines at the SUGRES and BTETs-2 Power Stations

42

The author defines the main economic parameters of three Siemens-Schuckert turbines ( Two at the BTETs-2 Power Station and one at the SUGRES Power Station). Details of reconstruction to meet the increased power demands are presented.

Shchepetil'nikov, M.I. Analysis of Performance Gains Due to Regeneration, Based on the "Heat-Value Method"

56

The author defines the "heat-value" coefficient. If additional (external) heat (  $q$  ) is added to feedwater undergoing a regenerative process, the change in the total heat consumption (used in obtaining new steam and in the intermediate reheating), designated as  $\Delta Q$  , is described as  $\Delta Q = - \xi q$  .

The symbol  $\xi$  represents the heat-value coefficient. Enthalpy curves and specific values of the  $\xi$  coefficient are deduced, together with computation results for optimum reheat pressures and feedwater temperatures.

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Improvement in the Construction (Cont.)

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Rubinshteyn, Ya.M., and L.V. Yedigarev. Two Arrangements of Feedwater Pumping

64

The authors discuss the optimum arrangement of the feedwater heating cycle (to achieve maximum effectiveness) and analyze the effects of feedwater heaters and feed pumps on performance parameters. Two systems of feedwater pumps are compared. One system utilizes high-pressure preheaters exposed to the full pressure of the feedwater, while the other employs preheaters between two sections of the split pump, that is, the initial (or intermediate) sector of the pump and the main sector. In the second case the heaters are under water pressure only in the "intermediate" sector. The authors conclude that both systems are equally efficient.

Murganov, B.P. Certain Problems Related to the Control-System Stability of Turbine Generators operating in parallel.

73

The problem of constant speed regulation and the stability of the speed-governing system for turbogenerators operating in parallel is analyzed.

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Improvement in the Construction (Cont.)

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Gal'perin, I.I. Methods of Turbine Governing in Compensated Control Systems

99

Governing for "compensated systems", i.e., systems provided with linkage between speed-control mechanisms and pressure-control mechanisms is analyzed. Types of interconnections are graphically represented, and respective control parameters and practices of regulation and correlation are outlined.

Veller, V.N. System of Single-Pump Hydrodynamic Control

112

The article deals with current systems of hydraulic speed-responsive governing with one pump and a pressure relay. Four different arrangements of such servomotors are described.

Kirakosyants, G.A. Experimental Investigation of the Effects of Friction in the Governor on the Flow-Regulation Process

127

Analysis of the work done by the governor against internal friction is presented, and the effects of friction on the flow-control valve are evaluated.

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Improvement in the Construction (Cont.)

SOV/3871

Veller, V.N., D.M. Levin, and Yu.V. Rzhiznikov. Control Valve of the VTI Turbine

141

Functions and performance of the new type of admission valve designed to regulate the rate of flow in the main governor of the VTI-type steam turbine are discussed.

Murganov, B.P. Influence of the Pump-Rotor Design on Pump-Performance Characteristics in a Hydrodynamic Governing System

146

An experimental model of a centrifugal pump in hydraulic governors is described. The geometry of the pump rotor and the aspects of tightening are analyzed with respect to the effect of pressure changes upon pump efficiency.

Shyakhin, P.N., and Ye.R. Plotkin. Investigation of the Forces Causing Vibration of Turbine Blades

163

The authors examine the problem of vibration of turbine blades when such vibrations are induced by flow irregularity. Dependence of the frequency of vibration on structural characteristics of blading as well as on the nature of flow obstructions is traced. Optimum designs for lacing wires and shrouds are suggested.

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Improvement in the Construction (Cont.)

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- Zaydel'man, R.L. Comparative Analysis of the Damping Properties of Shrouding and Types of Wire Binding 172  
Methods of fastening shrouds to buckets and types of lacing are analyzed with respect to vibration-damping efficiency. Curves are plotted indicating the dependence of damping properties on impact force.
- Zaydel'man, R. L. Determination of the Logarithmic Decrements for Vibration Damping by Measuring the Frequency of Natural Vibrations 178  
Methods of measuring the natural damping cycle of free vibrations are discussed, and values for the logarithmic decrement are deduced.
- Serezhkina, L.P. Some Results of an Experimental Investigation of Michell-Type Thrust Bearings 182  
The article deals with test stands and methods of testing Michell journal-type thrust bearings. Several lubrication systems are described with reference to service reliability and minimum friction losses.

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Improvement in the Construction (Cont.)

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- Berman, L.D., and S.N. Fuks. Improved Sealing of Condenser Tubes in Steam Turbines 209  
The article discusses and evaluates several methods and coating materials for protecting condensers from direct impingement of the steam. Several arrangements for "packing" tube ends into tube sheets and for sealing water boxes are evaluated.
- Zinger, N.M. Methods of Designing Jet Condensers 219  
Arrangements of multijet ejector condensers and layouts of stages are discussed and design and calculation methods given.
- Molchanov, Ye.I., G.G. Ol'khovskiy, and G.I. Shuvalov. Results of Final Adjustment and Testing of a 1,500-kwt Gas Turbine Plant 237  
Pre-operational testing of a GT-600-1.5 turbine is described.
- Molchanov, Ye.I. Selection of the Starting Procedure for a Gas Turbine 255
- Molchanov, Ye.I. Experimental Stand for Testing Gas-Turbine Rotors for Thermal Fatigue 261  
Allowable thermal-fatigue values and stress-distribution patterns for certain rotor elements with respect to their elasticity range are discussed.

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Improvement in the Construction (Cont.)

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- ~~APPROVED FOR RELEASE: 06/20/2000~~ ~~CIA-RDP86-00513R001031020006-8"~~  
Shtrom, Ya.L. Determination of the Most Effective Parameters for Multistage Gas-Turbine Plants 265  
The problem of cycle temperatures versus pressure ratios per individual stage is discussed. Several methods for selecting the optimal thermal-efficiency regime are evaluated.
- Polynovskiy, Ya.L. Determination of the Most Effective Parameters for the Regeneration Cycle of a Gas-Turbine Plant 275  
The author presents his own method of computation, applicable to a stationary plant, to determine the elements of regenerator effectiveness. The method can also be used for regenerators with cross-flow arrangement.

AVAILABLE: Library of Congress

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AC/pw/fal  
8-16-60

LYAKHOVSKIY, L.K., kand. tekhn. nauk; LYUBIN, Ya.L., inzh.

Effect of passive connections on the design and operation  
of the feed control mechanism of a piston pump. Khim. 1  
neft. mashinostr. no.3:15-18 S '64. (MIRA 17:12)



PRINTSENTAL', Solomon Grigor'yevich; LYAKHOVSKIY, L.M., red.; FREGER,  
D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Modernisation of gear-milling machines for the improvement] Mo-  
dernizatsiya zubofrezernykh stankov dlia povysheniia ikh tochno-  
sti; opyt Nevskogo zavoda imeni V.I. Lenina. Leningrad, 1962.  
17 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Ob-  
men pereodovym opytom. Seriya: Mekhanicheskaiia obrabotka metallov,  
no. 27) (MIRA 16:2)

(Gear-cutting Machines)

**LYAKHOVITSKIY, M.M.**

~~Immediate and remote results in the treatment of endarteritis obliterans~~  
with Kharchenko's preparation. Vest. khir. 71 no.1:45-48 1951.  
(CML 20:8)

1. Of the Second Surgical Clinic of the Ukrainian Institute for the Advanced  
Training of Physicians (Director—I.I. Ovsienko).

KARTAVIN, V.A., dotsent; LYAKHOVITSKIY, M.M., professor, zaveduyushchiy;  
OVSIYENKO, I.I., dotsent, direktor.

Technique of stopping hemorrhages from cerebral sinuses. Vop.neirokhir.  
17 no.3:54-55 My-Je '53. (MLRA 6:8)

1. Filial 2-y khirurgicheskoy kliniki Ukrainskogo instituta usovershen-  
stvovaniya vrachey (for Kartavin and Lyakhovitskiy). 2. Ukrainskiy  
institut usovershenstvovaniya vrachey (for Ovsiyenko).  
(Brain--Hemorrhage)

LYAKHOVITSKIY, M.M., prof.

~~Results of using curare preparations in the reposition of fractures;~~  
a preliminary report. Ortop.travm. i protez. 19 no.3:62-63 My-Je '58

1. Iz 2-y khirurgicheskoy kliniki (zav. prof. M.M. Lyakhovitskiy)  
Khar'kovskogo instituta usovershenstvovaniya vrachey (dir. - dots.  
I.I. Ovsienko).

(FRACTURES, surg.

reposition, curate anesth., evaluation (Rus))

(CURARE, ther. use.

fract. reposition, evaluation (Rus))

LYAKHOVITSKIY, M.M., prof.; MOYERMAN, L.A., doktor (Khar'kov)

Anesthesia in strumectomy for Basedow's disease. Probl.endok.i  
gorm. no.1:110-114 '62. (MIRA 15:8)

1. Iz kafedry khirurgii No.2 (zav. - prof. M.M. Lyakhovitskiy)  
Ukrainskogo instituta usovershenstvovaniya vrachey (dir. -  
dotsent I.I. Ovsinenko).  
(GRAVES' DISEASE)

LYAKHOVITSKIY, M. S., Engr. Cand. Tech. Sci.

Dissertation: "Power Engineering Verification of an Improved Installation for Water Electrolysis." Moscow Order of Lenin Power Engineering Inst imeni V.M. Molotov, 26 Sep 47.

SO: Vechernyaya Moskva, Sep, 1947 (Project #17836)

L 07489-67 EWT(m)/ENP(t)/ETI IJP(c) JD/WJ/JW/JWD

ACC NR: AP6035824

SOURCE CODE: UR/0413/66/000/020/0030/0030

INVENTOR: Levin, G.-N. L.; Rozlovskiy, A. I.; Ryabtsev, I. I.; Lyakhovitskiy, M. Sh.; Rodin, Ye. P.

ORG: none

TITLE: Preparative method for nitrogen oxides. Class 12, No. 186984 [announced by the State Scientific Research and Planning Institute of the Nitrogen Industry and Products of Organic Synthesis (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 30

TOPIC TAGS: nitrogen oxide, nitrogen oxide preparation, combustion product

ABSTRACT: An Author Certificate has been issued for a method of preparing nitrogen oxides from the elements by burning fuel gases in excess oxygen [percentage unspecified] followed by separation of the oxides from the cooled gaseous combustion products. To increase the rate of separation of the nitrogen oxides and the nitric oxide yield without increasing the combustion temperature, the process is conducted in two steps: 1) combustion with an oxygen concentration of 50—60%; and 2) after the separation of nitrogen oxides, the combustion is continued until the excess oxygen has been used up.

SUB CODE: 07.21/SUBM DATE: 09Aug65/ ATD PRESS: 5104  
Card 1/1/1/2 UDC: 661.98:66.071.7

SOV-3-58-10-16/23

AUTHOR: Lyakhovitskiy, M.V., Candidate of Pedagogical Sciences

TITLE: Primary Measures (Pervoocherednyye меры). From the Experience of Teaching Foreign Languages (Iz opyta prepodavaniya inostrannykh yazykov)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 10, pp 77 - 80 (USSR)

ABSTRACT: Recently shortcomings in the teaching of foreign languages have been sharply criticized in several essays. The present article analyzes the situation. The author wishes to eliminate the impression that a foreign language is a subject of secondary importance. During the past 10 years the number of lessons assigned to foreign languages has been steadily decreasing and the liberalism displayed in evaluating the students' knowledge has been of a detrimental effect. The author criticizes the method often adopted in teaching foreign languages and considers the fact that at the non-linguistic вузов this subject has been separated from the future specialists' specific interests to be the principal deficiency. The lack of liaison between the class work and the different kinds of non-class work has also yielded negative results. The instructors working at the chairs

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Primary Measures. From the Experience of Teaching Foreign Languages.

of foreign languages do not always command the colloquial language and do not apply the proper method of instruction. The problem of text-books and instructional aids has not as yet been solved. English language textbooks, issued recently, have been revised but still do not fully meet the requirements of present day methods. Many vuzes are poorly equipped with dictionaries, particularly special ones. There are 2 Soviet references.

ASSOCIATION: Khar'kovskiy institut inzhenerov kommunal'nogo stroitel'stva  
(Khar'kov Institute of Engineers of Municipal Construction)

Card 2/2

1. Lyakhovitskiy, M. Ya.
2. USSR (600)
4. Hospitals, Psychiatric
7. Problem of planning new psycho-neurological hospitals. Zhur. nevr. i psikh. 52 no.11, 1952.

9. Monthly List of Russian Accessions. Library of Congress, March 1953, Unclassified.

LYAKHOVITSKIY, M. YA.

Lyakhovitskiy, M. Ya. "The work of municipal psychiatric hospitals under conditions of war and blockade," (2nd Psychiatric Hospital of Leningrad), Ogr.-metod. voprosy sovr. neyropsikiatrii (VII), 1948, p. 37-43

SO: U-3264, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

LYAKHOVITSKIY, M.Ya.

Justification of the diagnosis of organic lesions of the central nervous system (with psychic disorders). Zhur. nevr. i psikh. 59 (MIRA 12:12)  
no.8:1005-1009 '59.

1. Nevro-psikhiatricheskii dispanser (glavnyy vrach T.I. Tupitsyna)  
Leninskogo rayona Leningrada.  
(CENTRAL NERVOUS SYSTEM dis.)  
(MENTAL DISORDERS diag.)

~~LYAKHOVSKIY, N.S.~~; PORUDOMINSKIY, I.M.

Pathologic anatomy of infectious nongonorrheal urethritis. Urologiia  
23 no.6:25-31 N-D '58. (MIRA 11:12)

1. Iz urologicheskogo otdela (zav. - prof. I.M. Porudominskiy) i otdela  
patomorfologii (zav. - prof. Ye. F. Belyayeva) Tsentral'nogo nauchno-  
issledovatel'skogo kozhno-venerologicheskogo instituta i kafedry kozhno-  
venericheskikh bolezney (zav. - prof. A.I. Kartamyshev) Tsentral'nogo  
instituta usovershenstvovaniya vrachev.

(URETHRITIS, pathol.

infect. non-gonorrheal, pathol. anat. (Rus))

LYAKHOVITSKIY, N.S., dotsent

Use of ultrasonics in the treatment of plastic induration of the  
penis. Urologiia no.6:64-65 '60. (MIRA 15:5)

1. Iz kliniki kozhnykh i venericheskikh bolezney (zav. - prof.  
A.I. Kartamyshev) Tsentral'nogo instituta usovershenstvovaniya  
vrachey.

(PENIS---DISEASES) (ULTRASONIC WAVES---THERAPEUTIC USE)

LYAKHOVITSKIY, N.S., dotsent

Some problems in the epidemiology, clinical aspects, and diagnosis.  
Sov.med. 24 no.9:87-93 8 '60. (MIRA 13411)

1. Iz kafedry dermato-venerologii (zav. - prof. A.N. Kartamyshev)  
TSentral'nogo instituta usovershenstvovaniya vrachey (dir. M.D.  
Kovrigina).

(TRICHOMONIASIS)

LYAKHOVITSKIY, N.S., dotsent

Angiomas of the urethra. Urologiia no.5:64-66 '61.

(MIRA 14:11)

1. Iz kliniki kozhnykh i venericheskikh bolezney (zav. - prof.  
A.I. Kartamyshev) Tsentral'nogo instituta usovershenstvovaniya  
vrachev.

(URETHRA---TUMORS)

(ANGIOMA)



LYAKHOVITSKIY, N.S., dotsent

Posttrichomonal urethritis. Sov. med. 25 no.2:91-94 F '62.  
(MIRA 15:3)

1. Iz kliniki kozhnykh i venericheskikh bolezney (zav. - prof.  
A.I. Kartamyshev) Tsentral'nogo instituta usovershenstvovaniya  
vrachey (dir. M.D. Kovrigina).

(TRICHOMONIASIS)  
(URETHRA--DISEASES)

LYAKHOVITSKIY, N.S., dots.; ASTVATSATUROV, K.R., dots., red.

[Gonorrheal diseases in women] Gonoreinnye zabolevaniia  
zhenshchin. Moskva, TSentr. in-t usovershenstvovaniia  
vrachei, 1963. 76 p. (MIRA 17:11)

LYAKHOVITSKIY, Nikolay Solomonovich; YUKHNOVSKAYA, S.I., red.

[Trichomoniasis] Trikhomonoz. Moskva, Meditsina, 1964.  
17 p. (MIRA 17:11)

LYAKHOVITSKIY, N.S., dotsent

Urethrostenosis following trichomoniasis. Vest. dermat. i ven.  
no.3:62-64 '65. (MIRA 18:11)

1. Klinika kozhnykh i venericheskikh bolezney (zav. - prof.  
A.I. Kartamyshev) Tsentral'nogo instituta usovershenstvovaniya  
vrachey, Moskva.

SHIRIN, A.A., prof. (L'vov); LYAKHOVITSKIY, N.S., dotsent (Moskva)

Pavlovsk. Vest. dorn. i vnt. 39 no.4:84-86 2p '65.  
(MIRA 19:2)

SOV/122-58-8-7/29

**AUTHORS:** Shtokman, I.G.: Doctor of Technical Sciences, and  
Iyakhovitskiy, S.I., Candidate of Technical Sciences

**TITLE:** Procedure for the Fatigue Analysis of Conveyor Chains  
 (Metodika rascheta na ustalost' tyagovykh tsepey  
 konveyerov)

**PERIODICAL:** Vestnik mashinostroyeniya, 1958, Nr 8, pp 23-26 (USSR)

**ABSTRACT:** Frequent fatigue failures of conveyor chains have  
 prompted an analysis of the equivalent fatigue load  
 and its comparison with the limiting fatigue strength.  
 The fatigue load amplitude varies continuously. The  
 equivalent fatigue load is defined by the following  
 relation. The  $m$ -th power of the equivalent fatigue  
 load, multiplied by the number of cycles (life) which  
 defines the limiting fatigue load at constant amplitude  
 in a symmetrical cycle is equal to the sum of all  
 fatigue contribution terms. Each term refers to a  
 number of cycles during which the symmetrically varying  
 load has a constant amplitude and is equal to this  
 number multiplied by the  $m$ -th power of the load amplitude.  
 $m$  is the exponent of the falling branch in the load/  
 fatigue life plot. It is stated that for chains of

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SOV/122-58-8-7/29

## Procedure for the Fatigue Analysis of Conveyor Chains

typical coal conveyors, operating under intense corrosion conditions, the limiting symmetrical fatigue load component is practically independent of the mean load. The example of a mine conveyor chain, designated SKR-11, is quoted wherein the limiting fatigue load is independent of the mean chain tension and amounts to 700 kg. It was found on the basis of some test results that the symmetrical cycle load amplitude vanishes at the driving sprocket and grows linearly along the tension side to become a maximum at the driven sprocket. As the chain passes over the driven sprocket, its mean tension undergoes a sudden jump from that in the tension side to that of the slack side. In doing so, the fluctuating load component does not vary but retains its maximum amplitude and, during the passage along the slack length of the chain, again diminishes in accordance with a linear law until it vanishes when reaching the driving sprocket. The frequency of fluctuations is the sprocket tooth frequency. Hence, the total number of fluctuations is equal to the number of times each link passes over the driving sprocket times the number of links in the straight portions of the chain. It is stated that

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SOV/122-58-8-7/29

# Procedure for the Fatigue Analysis of Conveyor Chains

the maximum amplitude of the fluctuating-load component can be determined from a resonance test of the installed chain, since many chains work under resonance conditions. The combination of these assumptions, with the help of elementary algebra, yields the equivalent fatigue load (Eq.(12)) which can be compared with the fatigue strength measured in rig tests. For example, the SKR-11 conveyor chain is installed in a conveyor of 100 m length between sprocket centres. The chain has a pitch of 8 cm and operates at a linear speed of 0.412 m/sec. The mean tension in the taut side is 200 kg and in the slack side, 1 000 kg. The specification calls for a service life of 2 100 operating hours. The maximum amplitude of the fluctuating-load component was found to be 800 kg. Fatigue tests of the chain have established a symmetrical cycle fatigue strength of 700 kg (constant amplitude) for a fatigue life of 3 million cycles. The value of the exponent  $m$  was 9. The application of the method proposed in the report yields an equivalent fatigue load of 840 kg. It follows that the effective load exceeds the limiting load and the chain cannot be expected to last the required service life.

Card3/4



SOV/122-58-8-7/29

Procedure for the Fatigue Analysis of Conveyor Chains

Considering that a maximum fluctuating-load amplitude may vary from one installation to another, whilst the other properties of the chain remain the same, it is useful to derive for every chain a relation between the equivalent fatigue load and the maximum load amplitude. In a typical example, both magnitudes are nearly equal at 600 kg. However, at a fluctuating-load amplitude of 200 kg, the equivalent fatigue load is about 400 kg. There are 2 figures and 8 Soviet references.

1. Chains--Mechanical properties
2. Chains--Analysis
3. Chains  
--Test methods

Card 4/4

LYAKHOVITSKIY, S.I., kand.tekhn.nauk

Research on the fatigue strength of the traction chain on the  
SKR-11 conveyer. Vop. rud. transp. no.2:49-60 1957.  
(MIRA 14:4)

1. Dnepropetrovskiy gornyy institut.  
(Conveying machinery)  
(Chains)

FLORINSKIY, F.V., prof.; VOLOSHINA, L.P., dots.; LYAKHOVITSKIY, S.I., kand.  
tekhn.nauk; SHIROCHENKO, Ye.V., dots. [deceased]; ARCHAKOVA, L.A.,  
inzh.; GVAY, T.B., inzh.; MURZINA, Z.I., inzh.

Results of research on screen vibrating in the horizontal horizontal  
plane. Izv.vys.ucheb.zav.; gor.zhur. no.2:167-170 '60. (MIRA 14:5)

1. Dnepropetrovskiy gornyy institut.  
(Screens (Mining))

LYAKHOVITSKIY, S.I., kand.tekhn.nauk

Determining the coefficient of effective load on the shaft of the drive on vibrating screen. Izv. vys. ucheb. zav.; gor. zhur.  
no. 4:133-136 '61. (MIRA 14:6)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema. Rekomendovana kafedroy gornoy elektrotekhniki Dnepropetrovskogo ordena Trudovogo Krasnogo Znameni gornogo instituta imeni Artema.  
(Screening(Mining)--Electric driving))

LYAKHOVITSKIY, S.I., kand.tekhn.nauk; TRUDOV, V.N., inzh.

Preventing accidents of multiple-bucket excavators operated  
on rail tracks. Ugol' Ukr. 5 no.12:19-21 D '61. (MIRA 14:12)

1. Dnepropetrovskiy gornyy institut.  
(Excavating machinery)  
(Strip mining)

KRYUKOV, B.I.; LYAKHOVITSKIY, S.I., kand.tekhn.nauk; USENKO, D.N., kand.-  
tekhn.nauk

Designing resonance conveyers. Vop. rud. transp. no.6:136-141  
'62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut.  
(Conveying machinery)

KRYUKOV, B.I., inzh.; LYAKHOVITSKIY, S.I., kand.tekhn.nauk; TRUDOV, V.N.,  
inzh.

Apparatus for dynamic tests of vibrating conveyors. Vop. rud.  
transp. no.6:152-158 '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut.  
(Conveying machinery)

LYAKHOVITSKIY, S.I., kand.tekhn.nauk

Determining the power consumption of vibrating conveyors. Vop.  
rud. transp. no.6:159-162 '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut.  
(Conveying machinery)



LYAKHOVITSKIY, S.I., kand. tekhn. nauk

Determining the power of the drive of shaker screens. Izv.  
vys. ucheb. zav.; gor. zhur. no.6:124-127 '61.

(MIRA 16:7)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy  
institut imeni Artema. Rekomendovana kafedroy stroitel'noy i  
teoreticheskoy mekhaniki.

(Screens(Mining))

KLADOV, G.K.; LYAKHOVITSKIY, Ye.M.; SHPIL'BERG, A.Ya.

Checking of arithmetic operations in a deduction code. Kiber-  
netika no. 4:43-44 JI-Ag '65. (MIRA 18:12)

1. Submitted Nov. 29, 1964.

ACC NR: AR6035227

SOURCE CODE: UR/0372/66/000/008/G011/G011

AUTHOR: Kalashnikov, V. I.; Sal'nikov, O. A.; Lyakhovitskiy, Ye. M.

TITLE: Random-process analyzer for the investigation of automation systems

SOURCE: Ref. zh. Kibernetika, Abs. 8G65

REF SOURCE: Pribory i ustroystva sredstv avtomatiki i telemekhan. Resp. mezhved. nauchno.-tekhn. sb., vyp. 1, 1965, 8-15

TOPIC TAGS: random process, correlation function, autocorrelation function, extreme low frequency, analyzer, random process analyzer, dispersion, ~~mathematical expectation, random process probability distribution~~

ABSTRACT: The ASP-1 random-process analyzer, developed at the El.-Simulation Laboratory of the Khar'kov Polytechnic Institute, is described and its technical characteristics are given. It is designed for calculating the basic statistical characteristics of extremely 1-f stationary random processes recorded on a magnetic tape from an object or a model. The device makes it possible to record the following statistical characteristics: 1) the mutual-correlation function of two stationary random processes; 2) the autocorrelation function; 3) dispersion (RMS

Card 1/2

UDC: 62-5.001.5

ACC NR: AR6035227

deviation); 4) mathematical expectation; 5) the integral function of random-process probability distribution. With digital reading the calculation error is 2.5—3.5%. The special features of the performance of the basic and el. -mechanical unit are briefly described. The results of the experimental testing of the ASP-1's operation are given. There are five illustrations. [Translation of abstract] [DW]

SUB CODE: 09/3,12

Card 2/2

LYAKHOVSKIY, V.N.

SUBJECT

USSR/MATHEMATICS/Algebra

CARD 1/2

PG - 989

AUTHOR

LYAKHOVSKIY V.N.

TITLE

On the question of the decomposability of a group into different nilpotent products.

PERIODICAL

Mat.Sbornik, n.Ser. 40, 401-414 (1956)  
reviewed 7/1957

O.N.Golovin has introduced the nilpotent product (Mat.Sbornik, n.Ser. 27, 427-454 (1950)) and the metabelian product (Mat.Sbornik, n.Ser. 28, 431-444 (1951); ibid. 28, 445-452 (1951)). The definitions and notations in the present paper are the same as in the above mentioned papers. The author investigates the relation between the metabelian and the direct product. Let  $G = A \circ B = H_1 \times H_2$ , where  $A \circ B$  means the metabelian product,  $H_1 \times H_2$  denotes the direct product ( $A, B, H_1, H_2$  subgroups of  $G$ ). The following theorems are proved: 1) Let  $A_1$  be the set of components of  $H_1$  in  $A$ ,  $B_1$  the set of components of  $H_1$  in  $B$  ( $i=1, 2$ ). These sets are groups. The commutator group of  $G$ ,  $(G, G) = (H_1, H_1) \times (H_2, H_2)$  is decomposable with the groups  $(A_1, A_1), (B_1, B_1), (A_1, B_1)$  ( $i=1, 2$ ) such that  $(H_1, H_1) = (A_1, A_1) \times (B_1, B_1) \times (A_1, B_1)$ ,  $(H_2, H_2) = (A_2, A_2) \times (B_2, B_2) \times (A_2, B_2)$ .

Mat.Sbornik, n.Ser. 40, 401-414 (1956)

CARD 2/2

PG - 989

2) Let  $Z_G$  be the center of  $G$ ,  $Z_A^B = [A \cap Z_G]$ ,  $Z_B^A = [B \cap Z_G]$ ,  
 $(Z_G = Z_A^B \times Z_B^A \times (A, B)_G)$ . Let  $A$  and  $B$  be direct products of cyclic groups.  
 Then a)  $A, B$  are torsion groups, then the characteristics of  $Z_A^B$ ,  $Z_B^A$  are  
 relatively prime, b) if one group, e.g.  $A$  is free of torsion or a mixed  
 Abelian group, then  $Z_B^A = 1$ . 3) Let  $Z_1$  be the set of elements of  $Z_A^B$  which  
 has a characteristic relatively prime with respect to  $Z_B^A$ . If the factor  
 group of  $A, B$  with respect to their commutator group are direct products  
 of cyclic groups, then the (direct) non-generated metabelian product of  
 $A, B$  can be decomposed directly if and only if

$$a) \quad A = A_1 \times A_2, \quad B = B_1 \times B_2$$

$$b) \quad (A_1, B_2)_{Z_1} = (A_2, B_1)_{Z_1} = 1.$$

L 55210-65 EWT(1)/EWA(h) Feb

ACCESSION NR: AP5015252

UR/0286/65/000/009/0035/0035

AUTHORS: Benin, V. I.; Borodin, N. I.; Kizilov, V. U.; Lyakhovitskiy, Ye. M.

TITLE: Semiconductor voltage stabilizer. Class 21, No. 170554 <sup>12</sup><sub>B</sub>

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 35

TOPIC TAGS: voltage stabilizer, transistorized circuit

ABSTRACT: This Author Certificate presents a semiconductor voltage stabilizer containing a converter, rectifiers, a filter, a comparison circuit, and an amplifier. To broaden the range of regulated voltages and to improve the utilization of the power transistors, the reactance of a capacitor or inductor is used as the regulating element. The magnitude of the capacitive or inductive reactance depends on the frequency generated by the converter which is controlled by feedback from the load voltage (see Fig. 1 on the Enclosure). Orig. art. has: 1 diagram.

ASSOCIATION: none

SUBMITTED: 22Jul63

ENCL: 01

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

Card 1/2

30139

S/194/61/000/007/069/079  
D201/D305

6.4200  
9.3278

AUTHORS:

Terent'yev, B.P., Shakhgil'dyan, V.V. and Lyakhov-  
khin, A.A.

TITLE:

A UHF radial system of radiocommunication with time  
division of channels

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika,  
no. 7, 1961, 2, abstract 7 K9 (Tr. uchebn. in-tov  
svyazi, M-vo svyazi SSSR, 1960, no. 3, 51-58)

TEXT: A system is described of radial UHF radio communication as  
designed in 1957-1958 at the Moscow Electrical and Technical Insti-  
tute of Communication. This is a multi-channel system with pulse-  
position modulation. Operating frequency range 400 mc/s. The sys-  
tem is tuned according to the principle of a communication grid i.e.  
there is a central station (CS) and several exchange stations.  
Communication between two exchange stations is established by the  
commutator of the CS. Through it, any exchange station may be con- ✓

Card 1/2



30139

S/194/61/000/007/069/079

D201/D305

A UHF radial system...

ected to any of the subscribers of the distribution network. The number of channels at CS: 10. Pulse duration: 1 micro second. Cross-talk interchannel attenuation  $\sim 60$  db. The peak transmitter power of the exchange station: 30 kW. The bloc-diagrams and other particulars of the system are given. [Abstracter's note: Complete translation]

X

Card 2/2

TERENT'YEV, B.P.; SHAKHGIL'DYAN, V.V.; LYAKHOVKIN, A.A.

Synchronous multichannel radio communication station. Trudy  
ucheb. inst. svyazi no.14:93-98 '63. (MIRA 17:9)

1. Moskovskiy elektrotekhnicheskii institut svyazi.

ACCESSION NR: AP4029220

S/0106/64/000/004/0011/0018

AUTHOR: Shakhgil'dyan, V. V.; Lyakhovkin, A. A.

TITLE: Filtration of a monochromatic signal by a phase AFC

SOURCE: Elektrosvyaz', no. 4, 1964, 11-18

TOPIC TAGS: AFC, phase AFC, phase AFC-filtration, filter limiter filter system

ABSTRACT: A phase AFC (PAFC) system is theoretically considered as a filter which controls the signal-to-noise ratio, and its performance is compared with that of a filter-limiter-filter (FLF) system. The dispersion of the phase of the oscillator being synchronized is found to be minimum with a proportional-integrating filter in the PAFC-feedback circuit; the real energy spectrum of the reference signal is allowed for. These assumptions are made: (1) The carrier-frequency component is regarded as a "signal" and all spurious-phase-modulation

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ACCESSION NR: AP4029220

components as "noise"; (2) the first FLF filter is identical to the filter located before the PAFC system; (3) the narrow-band filter after the limiter has a near-square-shaped frequency response; (4) the PAFC locking-in band is equal to the passband of the narrow-band filter; (5) the signal-to-noise ratio at the output of the narrow-band system is  $p_1 > 5$ . With the above assumptions, the PAFC system exhibits a better filtration than the FLF system at a cost of a considerably longer time constant of the former. Orig. art. has: 5 figures and 25 formulas.

ASSOCIATION: none

SUBMITTED: 30May63

DATE ACQ: 28Apr64

ENCL: 00

SUB CODE: EC

NO REF SOV: 007

OTHER: 001

Card 2/2

L 10496-65 EEO-2/EWT(d)/EED-2 ASD(a)-5/AFETR  
 ACCESSION NR: AP4045470 S/0108/64/019/009/0032/0040

AUTHOR: Lyakhovkin, A. A. (Active member); Shakhgil'dyan, V. V. (Active member)

TITLE: Lock-in band in an inertial system of phase automatic frequency control

SOURCE: Radiotekhnika, v. 19 no. 9, 1964, 32-40

TOPIC TAGS: automatic frequency control, AFC, phase AFC, inertial phase AFC

ABSTRACT: The lock-in band is determined, in analytical form, for the stable im kleinen systems of phase automatic frequency control (PAFC) which have complicated linear quadripoles in their feedback circuits. The general differential equation for a PAFC system is replaced with a first-order equation with slow-varying parameters  $\Omega = \sqrt{F_1^2 - F_2^2}$  and the method of harmonic balance is used for determining the functions  $F_1$  and  $F_2$ . These techniques

Card 1/2

L 10496-65  
ACCESSION NR: AP4045470

permit reducing high-order differential equations to this algebraic equation for the lock-in band  $\gamma_1$  :

$$\gamma_1^6 T_{1,1}^4 - [(2m - m^2) T_{1,1}^4 - 2T_{1,1}^2] \gamma_1^4 - (2T_{1,1} - 1) \gamma_1^2 - 1 = 0,$$

which can be further reduced to a cubic equation. The above method permits finding the lock-in band even if the analytical formula for the transfer constant of the quadripole is not available. It is claimed that the results obtained from the above approximate method applied to PAFC systems having various feedback quadripoles are in good agreement with published data. Orig. art. has: 4 figures, 35 formulas, and 1 table.

ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi (Scientific and Technical Society of Radio Engineering and Electrocommunication)

SUBMITTED: 10Jan63

ENCL: 00

SUB CODE: EC

NO REF SOV: 008

OTHER: 003

Card 2/2

1 63215-65 EEO-2/EWT(d)/EWT(1)/EEG-4/ERD-2/EWA(h)

ACCESSION NR: AP5016075

UR/0108/65/020/006/0028/0034  
621.372

AUTHOR: Shakhgil'dyan, V. V. (Active member); Lyakhovkin, A. A. (Active member) 18 17 B

TITLE: Selecting the type of low-frequency filter in the phase AFC circuit which would minimize the frequency dispersion in the oscillator being synchronized

SOURCE: Radiotekhnika, v. 20, no. 6, 1965, 28-34

TOPIC TAGS: phase AFC, phase AFC filter

ABSTRACT: The filtration of a phase AFC system is analyzed with various system and filter parameters and a fixed locking-frequency band. A reference signal and a normal stationary narrow-band additive noise having passed through the linear filter plus limiter are applied to the phase AFC system. The frequency dispersion of the system with these filters is evaluated: (1) An integrating RC-filter, (2) A proportional integrating filter, and (3) An RLC filter.

Card 1/2

L 63215-65

ACCESSION NR: AP5016075

Recommendations are given for application of the above filter types depending on the absolute values of  $\varepsilon$  and  $\gamma$ ;  $\varepsilon = \frac{\Delta\Omega}{\Delta\omega_y}$  is the ratio of the integral filter band to the locking band;  $\gamma_s = f\left(\frac{B}{\Delta f_s}\right)$ , where B is the reference-signal frequency dispersion. Orig. art. has: 7 figures and 13 formulas.

ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi  
(Scientific and Technical Society of Radio Engineering and Electrocommunication)

SUBMITTED: 29Jan63

ENCL: 00

SUB CODE: EC

NO REF SOV: 008

OTHER: 003

Card 2/2



L 9185-66 EWA(h)/EWT(1)

ACC NR: AR6000128

SOURCE CODE: UR/0058/65/000/008/H005/H005

SOURCE: Ref. zh. Fizika, Abs. 8Zh33

AUTHORS: <sup>44,55</sup>Lyakhovkin, A. A.; <sup>44,55</sup>Mikhaylov, A. V.; <sup>44,55</sup>Zubarev, Yu. I.

ORG: none

TITLE: On the phase stability of harmonic generators <sup>25</sup>

CITED SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 23, 1964, 18-29

TOPIC TAGS: frequency stability, harmonic oscillator, <sup>44,55</sup>phase analysis, semiconductor device

TRANSLATION: Some considerations are advanced regarding the factors which determine the phase stability of harmonic generators. A brief estimate is presented of different methods of harmonic generation from the point of view of phase stability. Two generator circuits are proposed for broad uniform and alternating spectra of harmonics with increased phase stability, constructed with semiconductor devices. The necessary calculation formulas are presented.

SUB CODE: 09

Added <sup>21,44,55</sup>  
 Key word: Harmonic Oscillation

Card 1/1 <sup>2</sup>

ACC NR: AP6021786

SOURCE CODE: UR/0413/66/000/012/0050/0050

INVENTORS: Lyakhovkin, A. A.; Shakhgil'dan, V. V.

ORG: none

TITLE: Device for filtering sinusoidal signals. Class 21, No. 182770

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 50

TOPIC TAGS: filter circuit, electric filter, phase shift, *electronic circuit*

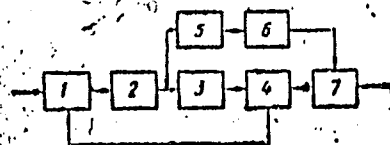
ABSTRACT: This Author Certificate presents a device for filtering sinusoidal signals. It contains a phase detector, a low frequency filter, a controlling unit, and a tunable oscillator. To decrease the phase deviation of the output voltage while maintaining the clamp poles, the phase detector output is connected through a series-connected amplifier and correcting four-terminal network to one of the inputs of a phase modulator (see Fig. 1). The second input of the phase modulator is connected to the output of the tunable oscillator.

Card 1/2

UDC: 621.373.42

ACC NR: AP6021786

Fig. 1. 1 - phase detector; 2 - low frequency filter; 3 - controlling unit; 4 - tunable oscillator; 5 - amplifier; 6 - correcting four-terminal network; 7 - phase modulator



Orig. art. has: 1 diagram.

SUB CODE: 09/ SUBM DATE: 21Jun65

Card 2/2

LYAKHOVKIN, I.N., inzhener.

Dismountable ballast cleaner at work. Put8 1 put.khoz.no.3:5-8  
Ag '57. (MLRA 10:9)  
(Ballast (Railroads))

LYAKHOVKINA, Z.

Every second student has a meal-ticket book. Obshchest.pit.  
no.3:50-51 Mr '62. (MIRA 15:4)

1. Starshiy inspektor obshchestvennogo pitaniya otdela rabochego  
snabzheniya Tul'skogo otdeleniya Moskovskoy zheleznoy dorogi.  
(Tula—Restaurants, lunchrooms, etc.)

LYAKHOVSKAYA, V.K.

The OP-3-type hydraulic squeezing press. Biul.tekh.-ekon.inform.  
no.7:14-16 '58. (MIRA 11:9)  
(Hydraulic presses) (Sheet-metal work)

SHCHEKIN, Aleksandr Abramovich; MILYUTIN, N.A., retsenzent; GUSEVA, M.G., retsenzent; LYAKHOVSKAYA, Ye.A., retsenzent; SOSULINA, V.N., redaktor; EL'KINA, E.M., tekhnicheskiy redaktor.

[Making lace on the multishuttle lace machine] Proizvodstvo kruzhev na mnogochelnochnoi kruzhevnoi mashine. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1954. 287 p. (Lace and lacemaking) (MIRA 8:2)

GARBARUK, Vladimir Nikolayevich; SHTERN, Rafail Yakovlevich; KOGAN, Lev  
Peysakhovich; LYAKHOVSKAYA, Ye. A., retsenzent; MINAYEVA, T. M.,  
redaktor; MEDVEDEV, E. Ya., tekhnicheskiy redaktor

[UV-2 weft knitting machine] Utochnivazal'naya mashina UV-2.  
Moskva, Gos. nauchno-tekhn. izd-vo M-va legkoi promyshl. SSSR,  
1957. 91 p. (MLRA 10:9)  
(Knitting machines)



LYAKHOVSKAYA, YE.I.

ZDANOVSKIY, A.B.; LYAKHOVSKAYA, Ye.I.; SHLEYMOVICH, R.E.; BUKSHTEYN, V.M.,  
redaktor; VALYASHKO, M.G., redaktor; PEL'SH, A.D., redaktor.

[Handbook of experimental data on the solubility of multicomponent  
water-salt systems] Spravochnik eksperimental'nykh dannykh po rast-  
vorimosti mnogokomponentnykh vodno-solevykh sistem. Vol.1 [Tri-compo-  
nent systems] Trekhkomponentnye sistemy. Leningrad, Gos. nauchno-  
tekhnicheskoe izd-vo khimicheskoi lit-ry, 1953. 670 p. (MLRA 7:2)

LYAKHOVSKAYA, Ye.I.

ZHDANOVSKIY, A.B.; ~~LYAKHOVSKAYA, Ye.I.~~; SHLEYMOVICH, R.E.; BUKSHTEYN, V.M., redaktor; VALYASHKO, M.G., redaktor; PEL'SH, A.D., redaktor; KOTS, V.A., otvetstvennyy redaktor; LEVIN, S.S., tekhnicheskii redaktor; ERLIKH, Ye.Ya., tekhnicheskii redaktor.

[Handbook of experimental data on the solubility of multicomponent water-salt systems] Spravochnik eksperimental'nykh dannykh po rastvorimosti mnogokomponentnykh vodnosolevykh sistem. Leningrad, Gos.nauchno-tekhn.izd-vo khim.lit-ry. Vol.2.[Quaternary and more complex systems] Chetyrekhkomponentnye i bolee slozhnye sistemy. 1954. 1269 p. (MLRA 8:3)

(Solubility)(Salts)(Systems (Chemistry))

LYAKHOVSKAYA, Ye. I.

2

Clarification of industrial lyes. A. B. Zdanovskii and E.  
G. Lyakhovskaya. U.S.S.R. 106,653, July 25, 1957. To  
clarify lye in industrial lyes, ground *Laminaria* is soaked  
for several hrs. in a 1-2% soda soda, and dtd. with water  
or mother liquor to 0.25-0.60% soda. M. Hoach

ZDANOVSKIY, A.B.; SOLOV'YEVA, Ye.F.; EZROKHI, L.L.; LYAKHOVSKAYA, Ye.I.; VYAZOVOVA, V.V., red.; PEL'SHA, A.D., red.; KOTS, V.A., red.; LEVIN, S.S., tekhn. red.; ERLIKH, Ye.Ya., tekhn. red.

[Manual of experimental data on the solubility of salt systems]  
Spravochnik eksperimental'nykh dannykh po rastvorimosti solevykh sistem. Leningrad, Gos. nauchno-tekhn.izd-vo khim. lit-ry.  
Vol.3. [Two-component systems; elements of the I group and their compounds] Dvukhkomponentnye sistemy; elementy I gruppy i ikh soedineniia. Sost. A.B.Zdanovskii i dr. Pod red. V.V. Viazovova, A.D.Pel'sha, 1961. 2224 p. (MIRA 15:3)

1. Leningrad. Vsesoyuznyy nauchno-issledovatel'skiy institut galurgii.  
(Salts) (Systems (Chemistry)) (Solubility)

SAVITSKIY, I., podpolkovnik; LYAKHOVSKIY, A., podpolkovnik zapasa  
Using visual publicity material. Voen. vest. 40 no. 3:52-53  
Mr '61. (MIRA 14:2)  
(Military education—Audio-visual aids)

SOV/177-58-4-30/32

AUTHOR: Lyakhovskiy, A.A., Sgt-Instructor and Methodologist of  
the Leningrad Officers' House

TITLE: Conference of the Readers of the Voyenno-meditsinskiy  
zhurnal (Military Medical Journal) (Konferentsiya  
chitateley Voyenno-meditsinskogo zhurnala)

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 4, p 94 (USSR)

ABSTRACT: Late in March 1958, the readers of the Voyenno-  
meditsinskiy zhurnal (Military Medical Journal) held  
a conference in the Dom ofitserov imeni S.M. Kirova  
(The Officers' House imeni S.M. Kirov) of the Lenin-  
grad District. Officers of the Medical Corps, repre-  
sentatives of many medical institutions, educational  
institutions and army units participated in the con-  
ference. Speeches were made by the Colonels K.V.  
Poznyak and D.I. Troitskiy (Editor of the Voyenno-me-  
ditsinskiy zhurnal). Many readers, including  
Lieutenant-Colonels I.T. Leonov, A.A. Shirkov, Professor,

1/2

SOV/177-58-4-30/32

Conference of the Readers of the Voenno-meditsinskiy zhurnal  
(Military Medical Journal)

Colonel of the Medical Corps V.N. Sheynis, Colonel of  
the Medical Corps K.V. Poznyak stated that the journal's  
content had become more extensive and more interesting.  
In some cases they criticized the editor's work.

Card 2/2

LYAKHOVSKIY, A. I.

Technology

(Problems of heat power in metallurgical plants). Moskva, Metallurgizdat, 1951.

Monthly List of Russian Accessions, Library of Congress, Nov. 1952. Unclassified.



LYAKHOVSKIY, A.M., inzhener; FILIMONOV, A.S., inzhener.

Standard precast pallet-type forms for making reinforced cement  
roofing slabs for flat roofs. Rats. i izobr.predl. v stroi.  
no.120:22-28 '55. (MIRA 9:7)

(Precast concrete) (Concrete slabs)

PHASE I BOOK EXPLOITATION

SOV/5074

Berklayd, I. M., A. P. Kurochkin, A. V. Lyakhovskiy, A. M. Snetkov,  
and V. A. Chudov.

Datchiki i izmeritel'nyye golovki (Pickups and Dial-Indicators)  
Moscow, Mashgiz, 1960. 158 p. Errata slip inserted. 10,000  
copies printed. (Series: Progressivnyye sredstva kontrolya  
razmerov v mashinostroyeni)

Eds. of Series: B. S. Bayburov, M. I. Kochenov, and D. D. Malyy;  
Scientific Ed.: T. P. Besspakhotnaya; Ed. of Publishing House:  
M. S. Yeliseyev; Tech. Ed.: A. Ya. Tikhanov; Managing Ed. for  
Literature on Instrument Construction and Means of Automation  
N. V. Pokrovskiy, Engineer.

PURPOSE: This book is intended for technical and design personnel  
It may also be used by students specializing in instrument de-  
signing at schools of higher technical education and tekhnikums.

COVERAGE: The authors discuss the designs, schematic diagrams, and  
characteristics of pickups and dial-indicators used as inspection

Card 1/4

# Pickups and Dial-Indicators

SOV/5074

devices. Electrocontact, pneumatic, inductive, and capacitive measuring systems and their pickups are described. Particular attention is given to special features of the designs, circuit diagrams, testing methods, and fields of application of these pickups. Specifications are also given. The book is a part of a larger work in the field of modern means of inspection which was recommended by the Commission on the Introduction of Advanced Methods and Means of Dimensional Inspection in Machine Building under the auspices of Gosudarstvennyy nauchno-tekhnicheskii komitet Soveta Ministrov SSSR (State Scientific Technical Committee of the Council of Ministers of the USSR). No personalities are mentioned. There are 15 references, all Soviet.

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# Pickups and Dial-Indicators

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VK/wrc/ec  
6-15-61

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SATSERDOTOV, F.A.; LYAKHOVSKIY, A.V.

Devices for linear measurements. Standartizatsiya 27 no. 5<sup>8</sup>  
50-53 My '63. (MIRA 16:6)

(Electric instruments—Standards)

LYAKHOVSKIY. B., BUTORINA, T. N. and KRUTOVSKAYA, Ye. A.

"Phenological Seasons of the Siberian Tiaga."

report presented at a Phenological Conference in Leningrad, Nov 1957,  
by USSR Geographical Soc.

LYAKHOVSKIY, D. N.

AID 285 - I

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

Call No.: TJ265.T4

BOOK

Author: LYAKHOVSKIY, D. N., Kand of Eng. Sci.

Full Title: EFFECT OF CONSTRUCTION PARAMETERS OF CIRCULAR BURNERS ON THEIR RESISTANCE AND ON THE AERO-DYNAMICS OF THE JET

Transliterated Title: Vliyaniye konstruktivnykh parametrov kruglykh gorelok na ikh soprotivleniye i aerodinamiky fakela

Publishing Data

Originating Agency: Ministry of the Heavy Machine-Building Industry. (Glavkotloturboprom). Central Scientific Research Inst. of Boilers and Turbines im. I. I. Polzunov. (TsKTI)

This article is from a series teploperedacha i aerogidrodinamika (Heat Transmission and Aero-Hydrodynamics), book 2, issue 1, pp. 36-58

Publishing House: State Scientific and Technical Publishing House of Literature on Machine Building. (Mashgiz)

No. of copies: 3,000

Date: 1947

Editorial Staff

Editor: Shubenko, L. A., Laureate of Stalin Prize, Kand of Eng. Sc.

Editor-in-Chief: Fetisov, F. I., Leningrad Div. of Mashgiz.

Tech. Ed.: None

Appraisers: None

1/2



Vliyaniye konstruktivnykh parametrov kruglykh gorelok na  
ikh soprotivleniye i aerodinamiky fakela

AID 285 - I

Text Data

Coverage: This article deals with experimental data on aerodynamics of the flame jet of pulverised coal and gas burners. Various methods of feeding air are studied in relation to velocity variation, angular jet spreads, and coefficient of hydraulic resistance. 22 charts, 9 sketches.

Experimental data presented appears to be interesting for the jet designers.

Purpose: Obtaining practical correction factors for design formulas.

Facilities: Central Scientific Research Inst. for Boiler and Turbines im.  
I. I. Polzunov. (TsKTI) and All-Union Heating Engineering Inst.

No. of Russian References: None

Available: Library of Congress.

LYAKHOVSKIY, D. N.

722. HEAT CONVECTION BETWEEN SUSPENDED SPHERICAL PARTICLES IN ENCLOSING MEDIUM. Lyakhovskiy, D. N. (Kotloturbostroyeniye (Boiler and Turbine Design), Oct. 1947, (5), 29-31). Tests with separate and mixed convection of spherical particles and air have shown that Nusselt's law of limits is not universally applicable to heat exchange of dust particles. Formulae and graphs are given for calculating the heat convection coefficient for particles in suspension, at low Reynolds numbers. Examples showing effect of dual fluctuation of intensity of heat exchange are given.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

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<p><b>LIKHOVICH, D.N.</b></p> <p>Improvements in the Design of the "Ta.K.T.I." Pulverized-Fuel Burner as a Result of Investigations with a Model. (In Russian.) D. N. Likhovskii and Iu. V. Ivanov. Boiler and Turbine Construction (U.S.S.R.). Feb. 1947, p. 25-26.</p> <p>An improved design is diagrammed. Results obtained with it are tabulated.</p>																																																					

LYAKHOVSKIY, D.N.

19

Method of Obtaining an Open Flame by Means of a Baffle Plate. (In Russian.) D. N. Lyakhovskii. Kholm-Turbostroenie (Boiler and Turbine Manufacture), Mar.-Apr. 1949, p. 18-22.

Proves the possibility of two stable shapes for conical flames: narrow with a small angle of dispersion, and widely spread with a dispersion angle of 180°. A method of obtaining the widely spread flame is indicated, applicable to pulverized-coal and gas burners. Optimum burner design is described.

ASS-514 METALLURGICAL LITERATURE CLASSIFICATION

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

LYAKHOVSKIY, D. N.,

"Investigation of the Aerodynamics of the Cyclonic Chamber," Aerodynamic and Heat Transfer Problems in Boiler and Furnace Processes; A Collection of Articles, Moscow, Gosenergoizdat, Moscow, 1958. 329 p.

Purpose: The book is intended for engineers and combustion specialists concerned with the design and operation of heating equipment and it is also for scientific workers and students of vtuzes.

PHASE I BOOK EXPLOITATION

1112

Nauchno-tekhnicheskoye obshchestvo energeticheskoy promyshlennosti.  
Tsentral'noye upravleniye. Sektsiya gazifikatsii

Teoriya i praktika szhiganiya gaza; trudy nauchno-tekhnicheskogo soveshchaniya  
(Theory and Practice of Gas Combustion; Transactions of a Scientific and  
Technical Meeting) Leningrad, Gostoptekhizdat, 1958. 343 p. 3,500 copies  
printed.

Ed.: Lyakhovskiy, D.N.; Executive Ed.: Fedotova, M.I.; Tech. Ed.:  
Yashchurzhinskaya, A.B.

PURPOSE: This book is intended for scientists, designing organizations, heat and  
power engineers, and workers in the gas industry and in enterprises using gas fuel.

COVERAGE: This volume contains reports and addresses presented at the Scientific-  
Technical Conference on the Theory and Practice of Gas Combustion. The reports  
deal with the physics of gas fuel combustion, the construction and operation of  
gas burners and the practical use of gas fuel in industrial and power plants.  
References are given at the end of each article.

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Theory and Practice of Gas Combustion (Cont.) 1112

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S/112/59/000/013/015/067  
A002/A001

Translation from: Referativnyy zhurnal, Elektrotehnika, 1959, No. 13, p. 22,  
# 26310

AUTHOR: Lyakhovskiy, D. N.

TITLE: Investigation of the Cyclone Chamber Aerodynamics

PERIODICAL: V sb.: Vopr. aerodinamiki i teploperedachi v kotel'no-topochnykh  
protssakh Moscow - Leningrad, Gosenergoizdat, 1958, pp. 114-150

TEXT: Investigations were conducted on an air model of a cyclone chamber with an internal diameter  $D = 750$  mm, a length of 1,050 mm and with different diameters of the outlet section  $D_{\Pi}$ . As a result, the distribution of the velocities and the pressure of the medium were obtained in dependence on the ratio  $D_{\Pi}/D$ , as well as the behavior of the suspension and the air flow in the cyclone chamber. The flow in the cyclone chamber is practically asymmetric and can be divided into four elements, which are analyzed separately. Upon leaving the burner, a portion of the fine dust is carried out of the cyclone chamber by the outlet eddy. Another portion, usually the greater one, is dispersed over

Card 1/2

Investigation of the Cyclone Chamber Aerodynamics

S/112/59/000/013/015/067  
A002/A001

the side walls and circulates in the peripheral region of the inlet and outlet butts of the cyclone chamber. The coarse suspension, as a rule is entirely dispersed over the side walls and circulates in the peripheral region of the inlet butt. For values of  $D_{\pi}/D$  from 0.2 to 1.0, the resistance of the cyclone chamber increases from 5 to 53% at the inlet and decreases from 73 to 15% at the outlet. The maximum portion of pressure losses in the cyclone chamber proper occurs in the interval of  $0.4 < D_{\pi}/D < 0.6$  and amounts up to 53%.

B. I. L.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2